

Name: _____

CHAPTER 2: CRITERION A

Section 1: Data: My company, _____, started paying dividends in _____. My company's dividends have been going up [steadily/unsteadily].

Year	Dividend or Earnings (EPS)	Difference (Subtract)	Ratio (Divide)
2002		_____	_____
2003			
2004			
2005			
2006			
2007			
2008			
2009			
2010			
2011			
	Common		
	General Term		
	Sum 2013-2019		

CRITERION A: CONTINUED

Level	Descriptor
1-2	Find common difference or common ratio. (How is the money growing?)
3-4	Find general term. (Come up with an equation so you can figure out how much the dividend will be in the future.)
5-6	Sum the dividends. (How much money will you receive from the company before you graduate from college?)
7-8	Used Calculator to Come Up With Another Distribution

Section 2: Level 1-2: After analyzing the data in section 1, I think the data looks more like an [AP/GP] because ...

My common [difference/ratio] is ... because ... (Describe how you came up with the common ratio. Did you take the mean, median, mode, or something else? Were there any outliers? What else did you take into consideration?)

Section 3: Level 3-4: Find the General Term

Start with the formula for the general term. List all the things you know (what are a ? r ? n ? d ? etc.). Pay particular attention to n . How have you defined it? If $n = 5$, what year is it?

Section 4: Level 5-6: Sum

Use the summation formula we learned. How much money are you expecting to receive (i.e. dividends) or make (i.e. earnings (EPS)) from the company over the next few years? You are showing off your formula here, so please don't just list terms and add them up.

(Level 7-8 will come later.)

CHAPTER 3: CRITERION B

Choose Book Value, Number of Shares, Profit, or Dividends to use in this chapter. Use something different from chapter 2.

Section 1: Data

Year	Book Value or No. of Shares
2002	
2003	
2004	
2005	
2006	
2007	

Section 2: Level 1-2: Make a Graph of the Data & Describe the Pattern in the Caption

Section 3: Level 3-4: Create a line of best fit for your data. It can be a linear equation or an exponential equation. (If you did AP before it should be exponential; if you did GP before it should be linear; if you did both before, then you can choose whichever one you want.)

Section 4: Level 5-6: WITHOUT LOOKING AT THE ANNUAL REPORT, predict the values for 2009-2015. Give clear reasons for why you are predicting these values. AFTER you made the prediction, check how close you were. You can use this comparison in criterion D below to find degree of accuracy.

Section 5: Level 7-8: Show a graph with your predicted values and your trendline and the actual values. Give justifications as to why your findings are accurate or why you think they should not be accurate. Use real life examples in your justification.

CHAPTER 4: CRITERION A: LEVEL 7-8

Choose a new data set (one of the above that you haven't used yet). Using your calculator, find an unfamiliar function (not a line or an exponential) that you think fits the data the best.

CRITERION C

Tables	Graphs	Equations

	# of Forms	Transitions	Clarity
1-2	1	0	Difficult to Understand
3-4	3	1	Possibly Misleading but Clear Conclusion
5-6	Tables Graphs & Equations	Tables -> Graphs & Graphs -> Equations	Data Support Conclusions Clearly

CHAPTER 5: CRITERION D

1-2	3-4	5-6
Relate to Real Life	Percentage Error -- Model vs. Data	Ways to Improve

Section 2: Level 1-2: Real Life: Choose 1 of the 3 analyses you've done to explain here. How is it connected to real life?

Section 3: Level 3-4: Percentage Error: Make a percentage error table of your model vs. the data.

Section 4: Level 5-6: Ways to Improve: Is there another model which would work better?